Data Usage

- Acceleration from:
 - Chest sensor (x, y, z)
 - Left-ankle sensor (x, y, z)
 - o Right-lower-arm (x, y, z)
- Gyro from:
 - Left-ankle sensor (x, y, z)
 - Right-lower-arm (x, y, z)
- Magnetometer from:
 - Left-ankle sensor (x, y, z)
 - Right-lower-arm sensor (x, y, z)
- Electrocardiogram signal

Data Usage

The main Business Case is Mobile Health Analytics based in:



Diagnose particular diseases



Care Management



Monitor movements

Data Definition

- Human Activity Recognition based on vital signs recordings
- Detect injuries
- Detect illnesses
- Detect diseases
- Detect prohibited movements
- Fall detection
- Risk estimation in elderly

Value and availability of the data

This data is available in http://www.datasciencecentral.com/profiles/blogs/10-great-healthcare-data-sets.

These data are valuable in a scale:



5

The availability data is easy in a scale:



5

Priorities of the data





S - OUTS PRESENCE SOURCE



Collect the data of the sensors

Pre-processing and normalization of the data.

Categorizing the activities types and group them.









Analysis and Data Visualization.